

- 26 -

ABSTRACT

ELECTRICAL HEATING ARRANGEMENT

5 A temperature sensor assembly (30) is provided for an
electrical heating arrangement (2). The temperature
sensor assembly (30) includes a substrate (32) located in
a heater (12). The substrate (32) has an upper surface
(38) in contact with the lower surface (10) of a cooking
10 plate (4). The upper and/or lower surface or surfaces
(38, 66) of the substrate (32) is provided with a first
temperature-sensitive resistance element (40) at a first
region (42) of the substrate (32) proximate a peripheral
region (34) of the heater. The upper (38) and/or lower
15 (66) surface or surfaces of the substrate (32) is or are
provided with a second temperature-sensitive resistance
element (54; 54A; 54B) at a second region (56) of the
substrate (32) proximate the central region (36) of the
heater. A support member (70; 102) is secured to the
20 substrate (32) and underlies at least the first region
(42) of the substrate (32) and thermal insulation means
(74) is interposed between the lower surface (66) of the
substrate (32) and the support member (70) only at the
first region (42) of the substrate (32).